

FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE  INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)	ATTY. DOCKET NO. 3161-18-2	SERIAL NO. 10/612,779
	APPLICANT DENG et al.	
	FILING DATE July 1, 2003	GROUP ART- <i>1652</i>

## U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROP.
<i>DL</i>	1	3,008,874	11/14/61	Feeney et al.	167	55	
	2	3,679,660	7/25/72	Magnus	260	211	
	3	3,683,076	8/8/72	Rovati	424	180	
	4	4,642,340	2/10/87	Senin et al.	536	55.2	
	5	5,246,840	9/21/93	Nilsson	435	101	
	6	5,731,184	3/24/98	Fujishima et al.	435	195	
	7	5,739,015	4/14/98	Srinivasan	435	101	
	8	5,744,325	4/28/98	Fujishima et al.	435	71.2	
	9	5,843,923	12/1/98	Schleck et al.	514	62	
	10	5,876,713	3/2/99	Nishi et al.	424	94.5	
	11	5,988,173	12/7/99	Haynes et al.	435	84	
	12	6,486,307	11/26/02	Gandhi et al.	536	20	
	13	6,531,303	3/11/03	Millis et al.	435	155	
	14	2003/0181419	9/25/03	Hwang et al.	514	62	
<i>DL</i>							

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION	
							YES	NO
<i>DL</i>	15	WO 02/43653	6/6/02	<i>PCT WIP0</i>				
	16	WO 02/066667	8/29/02	<i>PCT WIP0</i>				
	17	EP 0614972A2	9/14/94	EPO				
	18	EP 0732400A2	9/18/96	EPO				
<i>DL</i>	19	1,056,331	1/25/67	UK				

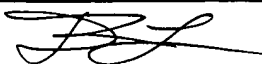
EXAMINER <i>DL</i>	DATE CONSIDERED <i>7/31/06</i>
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20	JP9234064A2	9/9/97	Japan			Abstract	
21	2141965	11/27/99	Russia			X	

## OTHER ART (Including Author, Title, Date, Pertinent Pages, etc.)

22	Araki et al., 1975, <i>Eur. J. Biochem.</i> , 55, 71-78
23	Bachmann <del>1987</del> , <i>Escherichia coli and Salmonella typhimurium cellular and molecular biology Mutant Derivatives of E. coli</i> , Vol 2, pp 1190-1219, 1987
24	Badet et al., 1987, <i>Biochemistry (Mosc)</i> , 26, 1940-1948
25	Balbas et al., 1996, <i>Gene</i> , 172, 65-69
26	Bearne, 1996, <i>J. Biol. Chem.</i> , 271, 3052-3057
27	Bernheim et al., 1970, <i>J. Bacteriol.</i> , 101, 384-391
28	Blattner et al., 1997, <i>Science</i> , 277, 1453-1474
29	Bouffard et al., 1994, <i>J. Mol. Biol.</i> , 244, 269-278
30	Brown et al., 1989, <i>Biochemical Society Transaction</i> , 18, 317-318
31	Chen et al., 1998, <i>J. Agric. Food Chem.</i> , 46, 1971-1974
32	Chen et al., 1998, <i>J. Agric. Food Chem.</i> , 46, 3207-3209
33	Chen et al., 1987, <i>Molecular General Genetics</i> , 210, 331-337
34	Cochet et al., 1995, <i>Archives of Biochemistry &amp; Biophysics</i> , 324, 391-400
35	Curtis et al., 1975, <i>J. Bacteriol.</i> , 122, 1189-1199
36	Daniels et al., 1993, <i>Mol. Endocrinol.</i> , 7, 1041-1048
37	Denisot et al., 1991, <i>Arch. Biochem. Biophys.</i> , 288, 225-230
38	Domard et al., 1991, <i>Int. J. Biol. Macromol.</i> , 13, 105-109
39	Dutka-Malen et al., 1988, <i>Biochimie</i> , 70, 287-290
40	Elliot et al., 1975, <i>Biochem. Biophys. Res. Commun.</i> , 64, 277 - 281
41	Fawcett et al., 1995, <i>J. Bacteriol.</i> , 177, 1742-1750
42	Fernandez-Herrero et al., 1995, <i>Mol. Microbiol.</i> , 17, 1-12
43	Flores et al., 1996, <i>Nat. Biotechnol.</i> , 14, 620-623

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<i>DN</i>	44	Freese et al., 1970, <i>J. Bacteriol.</i> , 101, 1046-1062
	45	Glaser et al., 1955, <i>J. Biol. Chem.</i> , 216, 67-79
	46	Golinelli-Pimpaneau et al., 1991, <i>Eur. J. Biochem.</i> , 201, 175-182
	47	Holmes et al., 1972, <i>J. Bacteriol.</i> , 111, 290-291
	48	Horlacher et al., 1997, <i>J. Biol. Chem.</i> , 272, 13026-13032
	49	Isaeva et al., 1987, <i>Izvestiya Akademii Nauk SSR</i> , 4, 937-939
	50	Jones-Mortimer et al., 1980, <i>J. Gen. Microbiol.</i> , 117, 369-376
	51	Joyce et al., 1984, <i>J. Bacteriol.</i> , 158, 636-643
	52	Kashige et al., 1994, <i>Carbohydrate Research</i> , 257, 285-291
	53	Kauss et al., 1988, <i>Methods Enzymol.</i> , 161, 518-523
	54	Kimata et al., 1997, <i>Biochemistry (Mosc)</i> , 94, 12914-12919
	55	Knapp et al., 2002, <i>Tetrahedron Lett.</i> , 43, 6075-6078
	56	Konecny et al., 1982, in <i>Enzyme Engineering</i> , Vol. 6:pp 91-96, Plenum Press
	57	Lengeler, 1980, <i>Mol. Gen. Genet.</i> , 179, 49-54
	58	Lerliche et al., 1996, <i>J. Am. Chem. Soc.</i> , 118, 1797-1798
	59	Lerliche et al., 1997, <i>Eur. J. Biochem.</i> , 245, 418-422
	60	Marie et al., 1992, <i>Mol. Microbiol.</i> , 6, 843-851
	61	Martinou et al., 1995, <i>Carbohydr. Res.</i> , 273, 235-242
	62	McKnight et al., 1992, <i>J. Biol. Chem.</i> , 267, 25208-25212
	63	Mengin-Lecreux et al., 1996, <i>The Journal of Biological Chemistry</i> , 271, 32-39
	64	Miclett et al., 2001, <i>The Journal of Biological Chemistry</i> , 37, 34840-34846
	65	Milewski, 1993, <i>Biochimistry et. Biophys Acta</i> , 1161, 279-284
	66	Mio et al., 1999, <i>J. Biol. Chem.</i> , 274, 424-429
	67	Miyazaki et al., 1979, <i>Chem. Pharm. Bull.</i> , 27, 532-535
	68	Mudri et al., 1992, <i>J. Biol. Chem.</i> , 267, 25208-25212
	69	Mukhija et al., 1996, <i>The Journal of Biological Chemistry</i> , 271, 14819-14824
	70	Novikov, 1999, <i>Russian J. Appl. Chem.</i> , 72, 156-161
<i>DN</i>	71	Novikov et al., 1997, <i>Russian J. Appl. Chem.</i> , 70, 1467-1470

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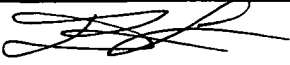
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	APPLICANT DENG et al.	
	FILING DATE July 1, 2003	GROUP ART 1652

72	Obmolova et al., 1994, <i>J. Mol. Biol.</i> , <b>242</b> , 703-705
73	Oppon et al., 1998, <i>J. Bacteriol.</i> , <b>180</b> , 3007-3012
74	O'Shannessy et al., 1993, <i>Anal. Biochem.</i> , <b>212</b> , 457-468
75	O'Shea et al., 1993, <i>Anal. Chem.</i> , <b>65</b> , 948-951
76	Oyaizu, 1986, <i>Japanese J. Nutr.</i> , <b>44</b> , 307-315
77	Oyaizu, 1988, <i>Nippon Shikuhin Kogyo Gakkaishi</i> , <b>35</b> , 771-775
78	Oyaizu, 1988, <i>Nippon Shikuhin Kogyo Gakkaishi</i> , <b>35</b> , 846-850
79	Penneff et al., 2001, <i>The Journal of Biological Chemistry</i> , <b>276</b> , 16328-16334
80	Peri et al., 1990, <i>Biochemical and Cell Biology</i> , <b>68</b> , 123-137
81	Plumbridge, 1987, <i>Mol. Gen. Genet.</i> , <b>209</b> , 618-620
82	Plumbridge, 1998, <i>Mol. Microbiol.</i> , <b>27</b> , 369-380
83	Plumbridge, 2001, <i>Nucleic Acids Res.</i> , <b>29</b> , 506-514
84	Plumbridge et al., 1999, <i>J. Bacteriol.</i> , <b>181</b> , 47-54
85	Plumbridge, 1989, <i>Mol. Microbiol.</i> , <b>3</b> , 505-515
86	Plumbridge, 1990, <i>J. Bacteriol.</i> , <b>172</b> , 2728-2735
87	Plumbridge, 1991, <i>Mol. Microbiol.</i> , <b>5</b> , 2053-2062
88	Plumbridge, 1992, <i>J. Gen. Microbiol.</i> , <b>138</b> , 1011-1017
89	Plumbridge et al., 1993, <i>J. Bacteriol.</i> , <b>175</b> , 4951-4956
90	Pompeo et al., 2001, <i>J. Biol. Chem.</i> , <b>276</b> , 3833-3839
91	Pradel et al., 1988, <i>J. Bacteriol.</i> , <b>170</b> , 4916-4923
92	Roseman, 1957, <i>J. Biol. Chem.</i> , <b>226</b> , 115-124
93	Rowley et al., 1991, <i>J. Bacteriol.</i> , <b>173</b> , 968-977
94	Sarvas, 1971, <i>J. Bacteriol.</i> , <b>105</b> , 467-471
95	Sashiwa et al., 2001, <i>Chemistry Letters</i> , 308-309
96	Sashiwa et al., 2001, <i>Japanese Soc. Chitin Chitosan</i> , <b>7</b> , 257-260
97	Schuster et al., 1993, <i>Nature</i> , <b>365</b> , 343-347
98	Shi and Xie 2002 <i>Huaxue Shiki</i> 24:93-94
99	Shu 1998, <i>Journal Agricultural of Food Chemistry</i> , <b>46</b> , 1129-1131

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on	100	Smith et al., 1996, <i>J. Bacteriol.</i> , 178, 2320-2327
	101	Souza et al., 1997, <i>Archives of Biochemistry &amp; Biophysics</i> , 340, 338-346
	102	Sumoto et al., 1991, <i>Chem. Pharm. Bull.</i> , 39, 792-794
	103	Teplyakov et al., 1998, <i>Structure</i> , 6, 1047-1055
	104	Vogler et al., 1989, <i>J. Bacteriol.</i> , 171, 6586-6592
	105	Vogler et al., 1989, <i>Mol. Gen. Genet.</i> , 219, 97-105
	106	Walker et al., 1984, <i>Biochem. J.</i> , 224, 799-815
	107	Wanner, 1996, in <i>Escherichia coli and Salmonella: Cellular and Molecular Biology</i> , Vol. 1:pp. 1357-1381, ASM Press
	108	Wanner, 1990, in <i>The Molecular Basis of Bacterial Metabolism</i> , Vol. 41:pp. 152-163, Springer-Verlag
	109	Wanner, 1993, <i>J. Cell. Biochem.</i> , 51, 47-54
	110	Watanabe et al., 1990, <i>Agric. Biol. Chem.</i> , 54, 519-525
	111	Watzel et al., 1989, <i>J. Biol. Chem.</i> , 264, 8753-8758
	112	White, 1968, <i>Biochem. J.</i> , 106, 847-858
	113	White et al., 1967, <i>Biochem. J.</i> , 105, 121-125
	114	Wolfe et al., 1956, <i>Arch. Biochem. Biophys.</i> , 64, 489-497
	115	Wu et al., 1971, <i>J. Bacteriol.</i> , 105, 455-466
	116	Xin-Yi et al., 2001, <i>Journal of Changde Teachers University (Natural Science Edition)</i> , 13, 63-65
	117	Yamano et al., 1997, <i>Biosci. Biotechnol. Biochem.</i> , 61, 1349-1353
	118	Yamano et al., 1996, <i>Biosci. Biotechnol. Biochem.</i> , 60, 1320-1323
	119	Yamano et al., 1994, <i>Biosci. Biotechnol. Biochem.</i> , 58, 193-195
	120	Yamano et al., 2000, <i>Mar. Biotechnol.</i> , 2, 57-64
	121	Zalkin, 1985, <i>Methods of Enzymology</i> , 113, 278-281
on	122	Zhang et al., 2003, <i>J. Cap. Elec. &amp; Microchip Tech</i> pp. 33-37

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Substitute for form 1449A/PTO <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>				<b>Complete if Known</b>	
				Application Number	10/612,779
				Filing Date	July 1, 2003
				First Named Inventor	Deng
				Art Unit	1652
				Examiner Name	RAMIREZ
Sheet	1	of	1	Attorney Docket Number	3161-18-2

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number Number-kind Code <sup>2 (if known)</sup>	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
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DR		PT	WO 97/31121	08/28/1997	Univ. British Columbia		
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OTHER ART (Including Author, Title, Date, Pertinent Pages, etc.)		
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